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EXPERIMENT STATION FILE
UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

January Field Program, 1919.

This program of field-work assignments in the Forest Service is issued quarterly, on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instruction printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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Goat range study.—**William R. Chapline**, grazing examiner, Washington, D. C.

Range reserve experiments.—**Jornada Reserve**: **Clarence L. Forsling**, grazing examiner, in charge, Las Cruces, N. Mex. **Santa Rita Reserve**: **R. L. Hensel**, forest examiner, in charge, Tucson, Ariz.

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CLAIMS AND OCCUPANCY.—C. H. SQUIRE, in charge.

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SETTLEMENT.—F. L. HARVEY, in charge.

BOUNDARIES AND ENTRY SURVEYS.—R. V. REYNOLDS, in charge.

STATUS.—J. B. SATTERLEE, J. E. BURCH.

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Review of results.—Chas. R. Thomas, in charge; Ray C. Tuttle.

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DERIVED PRODUCTS.—L. F. HAWLEY, in charge; Ernest Bateman, Samuel A. Mahood, E. C. Sherrard, Howard N. Calderwood, H. M. Mayo, G. W. Blanco, D. E. Cable.

Lumber studies.—Henry J. Hegel, in charge; D. G. White, W. W. Morris.

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UTILIZATION REPORTS BY SPECIES.—W. D. Brush.

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LUMBER INDUSTRY STUDY.—R. C. BRYANT.

STATISTICS OF FOREST PRODUCTS.—Franklin H. Smith, Albert H. Pierson. Collaborator: A. B. Strough, Albany, N. Y.

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WATER POWER.—R. R. RANDELL, assistant engineer, in charge. (temporarily on detail to the Forest Products Laboratory); C. A. KOLB, geographer.

ATLAS.—G. B. BRUCE.

DRAFTING.—J. M. WITHEROW.

ENGRAVING.—F. C. CRASS.

PHOTOGRAPHY.—E. S. SHIPP.

SURVEYS.—F. E. BONNER (on detail to Madison laboratory).

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APPRAISAL OF LANDS.—W. W. ASHE, forest inspector in charge, Washington, D. C. Lumberman's examinations: E. D. Fletcher, Gorham,

N. H.; George W. Marshall, Clayton, Ga. Forest examiners: White Mountain Area, H. S. Davis, Gorham, N. H.; Shenandoah Area, S. H. Thompson, Harrisonburg, Va.; Natural Bridge, Massanutten, and Potomac Areas, H. M. Sears and party, Buena Vista, Va.; Boone and Mount Mitchell Areas, W. J. Damtoft, Asheville, N. C.; Savannah Area, Samuel L. Corbin (in charge of party), Clayton, Ga.; Alabama Area, E. J. Meade (in charge of party), Moulton, Ala.

SURVEY OF LANDS.—Harold G. Wood, national forest examiner (on furlough), Washington, D. C. Examiners of surveys: White Mountain Area, Frederick A. Gardner, Gorham, N. H.; Shenandoah Area, E. R. Conrad and Carl F. Muzzey, Harrisonburg, Va.; Nantahala Area, J. W. Fox, Clayton, Ga.; Mount Mitchell Area, Dave M. Gibson, Marion, N. C.; Pisgah Area, James Denman and W. N. Sloan, Asheville, N. C.; Natural Bridge Area, Alfred R. Kinney, Buena Vista, Va.

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DISTRICT 1.

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OPERATION.—GLEN A. SMITH, assistant district forester; G. I. PORTER, executive assistant; R. B. ADAMS, telephone engineer; FAY G. CLARK, improvements; C. C. DELAVAN, fire protection.

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PLANTING.—E. F. WHITE, in charge. Savenac Nursery, D. S. Olson, planting assistant, in charge, Haugan, Mont.

PRODUCTS.—C. N. WHITNEY, forest examiner.

INSECT CONTROL.—LENTHALL WYMAN.

RESEARCH.— ———.

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STUDIES.—L. C. HURTT, grazing examiner.

LANDS.—F. A. FENN, assistant district forester.

CLAIMS.—P. J. O'BRIEN, law examiner; F. R. INGALSBE, mineral examiner.

SETTLEMENT.—J. W. STREIT.

LAND CLASSIFICATION.—C. B. SWIM, assistant.

ENGINEERING.—G. H. LAUTZ, district engineer.

MAPS AND SURVEYS.—G. H. LAUTZ, in charge.

Drafting.—K. D. SWAN.

Entry Surveys.—F. E. THIEME.

Topographic Surveys.—————.

ROADS.—G. H. LAUTZ, in charge.

WATER POWER.—E. W. KRAMER, in charge.

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Selway.—CHARLES F. HOWELL, forest supervisor, Kooskia (WU); John H. Clack, deputy forest supervisor.

St. Joe.—ROSCOE HAINES, forest supervisor, St. Maries (Continental).

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- Cabinet.—H. L. BAKER, forest supervisor, Thompson Falls (WU).
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- Flathead.—JOSEPH D. WARNER, forest supervisor, Kalispell (WU); L. G. Hornby, deputy forest supervisor; C. S. Webb, scaler.
- Gallatin.—R. E. BODLEY, forest supervisor, Bozeman (WU).
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- Lewis and Clark.—DWIGHT L. BEATTY, forest supervisor, Choteau (WU).
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WASHINGTON.

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LANDS.—C. J. STAHL, assistant district forester; THOS. M. MOORMAN, assistant; CROSBY A. HOAR, land classification; J. B. CAMMANN, mineral examiner.

ENGINEERING.————, district engineer.

MAPS AND SURVEYS.————.

Drafting.————.

Entry Surveys.—W. C. CAMPBELL.

ROADS.————.

WATER POWER.————.

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Fremont, Pike National Forest.—C. G. BATES, Manitou, Colo.

Wagon Wheel Gap, Rio Grande National Forest.—J. H. JARBOE, of the Weather Bureau, Wagon Wheel Gap, Colo.

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Montezuma.—GORDON PARKER, forest supervisor, Mancos (WU); Charles Steuart, forest examiner.

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MICHIGAN.

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MINNESOTA.

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NEBRASKA.

Nebraska.—JAY HIGGINS, forest supervisor, Halsey (WU). Morton Nursery, Nenzil. Bessey Nursery, Harry C. Turner, forest planting assistant, in charge, Halsey.

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Harney.—JAMES F. CONNER, forest supervisor, Custer (WU); Bernard E. Leete, forest examiner.

WYOMING.

Bighorn.—RESS PHILIPS, forest supervisor, Sheridan (WU); Andrew G. Stockwell, deputy forest supervisor.

Black Hills.—See South Dakota.

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Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU); E. T. Wolf, forest examiner.

Washakie.—C. G. POOLE, forest supervisor, Lander (WU).

DISTRICT 3.

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OPERATION.—WARD SHEPARD, forest examiner, assistant in operation.

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W. H. LONG, consulting pathologist, Albuquerque, N. Mex.

GRAZING.—JOHN KERR, assistant district forester.

STUDIES.—R. R. HILL, grazing examiner.

LANDS.—FRANK C. W. POOLER, assistant district forester; FRANK E. ANDREWS, national forest examiner. Classification: REX KING, forest examiner.

ENGINEERING.—C. A. LONG, district engineer ; LEE C. DAVES, assistant engineer.

MAPS AND SURVEYS.—LEE C. DAVES, in charge.

Drafting.—F. E. LONDON.

Entry Surveys.—FRANK D. YOST, surveyor.

ROADS.—C. A. LONG, in charge.

WATER POWER.—C. A. LONG, in charge.

EXPERIMENT STATION.

Fort Valley, Coconino National Forest.—G. A. PEARSON, forest examiner, in charge, Flagstaff, Ariz.

NATIONAL FORESTS.

ARIZONA.

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Coconino.—RAYMOND E. MARSH, forest supervisor, Flagstaff (WU, P) ;
Lorenzo B. Maxwell, deputy forest supervisor ;
Leonard R. Lessel and James W. Girdner, national forest examiners.

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Tonto.—W. H. GODDARD, forest supervisor, Roosevelt (WU) ; J. H. Sizer, deputy forest supervisor.

Tusayan.—IRA T. YARNALL, forest supervisor ; Williams (WU, P) ; Francis L. W. Grubb, deputy forest supervisor.

GRAND CANYON NATIONAL MONUMENT.—T. EARL WYLDER, forest supervisor, Grand Canyon (P).

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Coronado.—See Arizona.

Datil.—AUSBURN H. DOUGLAS, forest supervisor, Magdalena (WU, P) ; Robert Munro, national forest examiner ; Thomas C. Turk, deputy forest supervisor.

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Santa Fe.—JOSEPH C. KIRCHER, forest supervisor, Santa Fe (WU, P) ; Earl W. Loveridge, deputy forest supervisor ; Gordon T. Backus, forest examiner. Las Gallinas Nursery, Herman Krauch, forest examiner.

DISTRICT 4.

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GRAZING.—HOMER E. FENN, assistant district forester ; ERNEST WINKLER, inspector of grazing.

STUDIES.—MARK ANDERSON, D. A. SHOEMAKER, and T. B. NICHOLS, grazing examiners.

LANDS.—C. N. WOODS, assistant district forester ; R. E. GERY, assistant ; W. B. RICE, in charge of entry surveys.

RESEARCH.—C. F. KORSTIAN, forest examiner, in charge.

ENGINEERING.—J. P. MARTIN, district engineer.

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Drafting.—F. I. SHAFER, in charge.

ROADS.—J. P. MARTIN, in charge.

WATER POWER.—J. P. MARTIN, in charge.

EXPERIMENT STATION.

Great Basin, Manti National Forest.—ARTHUR W. SAMPSON, plant ecologist, in charge, Ephraim, Utah.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JOHN C. ROAK, forest supervisor, Kanab, Utah (WU).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU) ; Lyle F. Watts, deputy forest supervisor.

Cache.—See Utah.

Caribou.—C. D. SIMPSON, forest supervisor, Montpelier (WU) ; G. G. Henderson, deputy forest supervisor.

Challis.—DAVID LAING, forest supervisor, Challis (WU).

Idaho.—WALTER G. MANN, forest supervisor, McCall (WU, P).

Lemhi.—CHAS. F. EVANS, forest supervisor, Mackay (WU).

Minidoka.—W. M. CAMPBELL, forest supervisor, Burley (WU) ; J. W. Stokes, deputy forest supervisor.

Payette.—GUY B. MAINS, forest supervisor, Emmett (WU) ; F. S. Moore, deputy forest supervisor.

Salmon.—S. C. SCRIBNER, forest supervisor, Salmon (WU) ; Clinton M. Mangun, deputy forest supervisor.

Sawtooth.—HERBERT G. MCPHETERS, forest supervisor, Hailey (WU) ; Leslie E. Dodge, deputy forest supervisor.

Targhee.—SAM'L W. STODDARD, forest supervisor, St. Anthony (WU) ; John N. Kinney and Ernest A. Renner, deputy forest supervisors.

Weiser.—J. B. LAFFERTY, forest supervisor, Weiser (WU) ; T. V. Pearson, deputy forest supervisor.

NEVADA.

Humboldt.—CHAS. DEMOISY, Jr., forest supervisor, Elko (WU) ; Oscar W. Mink, deputy forest supervisor.

Nevada.—ALEXANDER MCQUEEN, forest supervisor, Ely (WU).

Toiyabe.—W. W. BLAKESLEE, forest supervisor, Austin (WU, P).

UTAH.

Ashley.—W. M. ANDERSON, forest supervisor, Vernal (WU).

Cache.—E. C. SHEPARD, forest supervisor, Logan (WU) ; Raymond D. Garver, deputy forest supervisor.

Dixie.—WM. M. MACE, forest supervisor, St. George (WU).
Fillmore.—JOHN RAPHAEL, forest supervisor, Richfield (WU); A. M. Woodbury, deputy forest supervisor.
Fishlake.—C. A. MATTSSON, forest supervisor, Salina (WU).
La Sal.—S. B. LOCKE, forest supervisor, Moab (WU).
Manti.—B. E. MATTSSON, forest supervisor, Ephraim (WU).
Minidoka.—See Idaho.
Powell.—GEO. H. BARNEY, forest supervisor, Escalante (WU).
Sevier.—J. W. HUMPHREY, forest supervisor, Panguitch (WU); Wallace M. Riddle, deputy forest supervisor.
Uinta.—A. W. JENSEN, forest supervisor, Provo (WU).
Wasatch.—CARL B. ARENTSON, forest supervisor, Salt Lake City (WU, P); David A. Arrivee, deputy forest supervisor. Louis B. Koch, scaler, in charge of Standard Timber Co. sale.

WYOMING.

Bridger.—LEE E. COOPER, forest supervisor, Pinedale (WU); E. E. McKee, deputy forest supervisor.
Teton.—A. C. MCCAIN, forest supervisor, Jackson (WU).
Wyoming.—CHARLES A. BEAM, forest supervisor, Afton (WU).

DISTRICT 5.

California and southwestern Nevada. Office, 114 Sansome Street, San Francisco, Cal.

COERT DUBOIS, district forester.

INFORMATION.—R. F. HAMMATT, in charge; J. D. MAXFIELD, in charge exhibits.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—A. W. SMITH, district fiscal agent.

OPERATION.—R. HEADLEY, assistant district forester, CLARENCE WILEY, national forest inspector.

TELEPHONE ENGINEERING.—F. H. HAFLEY, telephone engineer.

MAINTENANCE.—FRANK HAYNIE.

SILVICULTURE.—T. D. WOODBURY, assistant district forester.

LOGGING ENGINEERING.—D. C. BIRCH, forest examiner.

TIMBER SALES.—J. C. ELLIOTT, lumberman.

TIMBER SURVEYS.—O. M. EVANS, forest examiner.

PLANTING.—STUART B. SHOW, forest examiner.

INSECT CONTROL.—RALPH HOPPING, national forest examiner.

FOREST PATHOLOGY.—E. P. MEINECKE, consulting pathologist.

GRAZING.—C. E. RACHFORD, assistant district forester.

STUDIES.—F. D. DOUTHITT, grazing examiner.

LANDS.—L. A. BARRETT, assistant district forester; CHAS. S. BROTHERS, national forest inspector.

MINERAL EXAMINATION.—W. H. FRIEDHOFF, mineral examiner.

LAND CLASSIFICATION AND ENTRY SURVEYS.—P. L. DAY, national forest examiner in charge of field work.

ENGINEERING.—J. C. DORT, acting district engineer.

MAPS AND SURVEYS.—J. C. DORT, in charge.

Drafting.—R. E. L. BORGFELDT.

ROADS.—J. C. DORT, in charge.

WATER POWER.—J. C. DORT, in charge.

PRODUCTS.—CARY L. HILL, forest examiner, acting in charge.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P).

California.—J. D. COFFMAN, forest supervisor, Willows (WU); B. H. MACE, deputy forest supervisor.

Cleveland.—M. R. TILLOTSON, forest supervisor, Escondido (WU).

Eldorado.—EDWARD I. KOTOK, forest supervisor, Placerville (WU).

Inyo.—C. E. JORDAN, forest supervisor, Bishop (WU).

Klamath.—W. A. HUESTIS, forest supervisor, Yreka (WU).

Lassen.—JAMES O. MORROW, forest supervisor, Red Bluff (WU); T. C. WEST, deputy forest supervisor.

Modoc.—W. G. DURBIN, forest supervisor, Alturas (WU).

Mono.—See Nevada.

Monterey.—J. R. HALL, forest supervisor, Santa Barbara (P).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU); GEORGE R. ORR, lumberman.

Santa Barbara.—J. R. HALL, forest supervisor, Santa Barbara (P).

Sequoia.—F. P. CUNNINGHAM, forest supervisor, Bakersfield (WU); GEORGE W. LYONS, deputy forest supervisor.

Shasta.—N. H. SLOANE, forest supervisor, Sisson (P); BELKNAP C. GOLD-SMITH, forest examiner. Pilgrim Creek Nursery.

Sierra.—M. A. BENEDICT, forest supervisor, Northfork (WU via Friant-Exp. via Friant); J. V. WULFF, lumberman.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU).

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU).

Trinity.—E. V. JOTTER, forest supervisor, Weaverville (WU).

NEVADA.

Eldorado.—See California.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU).

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Post Office Building, Portland, Oreg.

GEO. H. CECIL, district forester; A. G. JACKSON, education.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge.

ACCOUNTS.—H. I. LOVING, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester; M. L. MERRITT, assistant in improvement work; C. M. ALLEN, telephone engineer; H. M. WHITE, national forest inspector.

MAINTENANCE.—H. M. WHITE.

INSPECTION (Protection of Oregon & California Railroad lands and cooperation under Weeks law).—R. H. CHAPLER, forest examiner.

SILVICULTURE.—THORNTON T. MUNGER, forest examiner, in charge; W. T. ANDREWS, logging engineer; EDWIN C. ERICKSON, lumberman; BRUCE E. HOFFMAN, G. A. BRIGHT, and A. A. GRIFFIN, forest examiners; A. J. JAENICKE, forest examiner on insect control.

PLANTING.—J. F. KÜMMEL, forest examiner.

GRAZING.—E. N. KAVANAGH, assistant district forester; J. L. PETERSON, grazing examiner.

LANDS.—C. J. BUCK, assistant district forester.

CLAIMS AND STATIONS.—FRANK A. LAW, Jr., clerk.

SETTLEMENT.—A. H. WRIGHT, national forest examiner.

ENTRY SURVEYS.—GEO. W. ROOT and E. R. JOHNSON, surveyors.

WASHINGTON STATE LAND EXCHANGE.—STANTON G. SMITH, forest supervisor; WM. RYLE TEED, national forest examiner.

ENGINEERING.—P. H. DATER, district engineer.

MAPS AND SURVEYS.—————.

Drafting.—R. H. ROBERTSON.

Surveys.—CECIL A. LORD.

ROADS.—H. L. PLUMB.

WATER POWER.—P. H. DATER.

PRODUCTS.—L. A. NELSON, logging engineer, in charge; T. J. STARKER, forest examiner.

EXPERIMENT STATION.

Wind River, Columbia National Forest.—JULIUS V. HOFMANN, forest examiner, in charge, Stabler, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU) ; Thomas M. Hunt, forest supervisor, Cordova (WU, P).

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU) ; B. F. Heintzleman, deputy forest supervisor.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P) ; R. S. Wallace, forest examiner.

Crater.—H. B. RANKIN, forest supervisor, Medford (WU, P) ; H. D. Foster, deputy forest supervisor ; Fred A. Matz, national forest examiner.

Deschutes.—NORMAN G. JACOBSON, forest supervisor, Bend (WU, P) ; H. E. Vincent, deputy forest supervisor ; W. J. Sproat, forest examiner ; F. V. Horton, grazing examiner.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev., P) ; R. A. Bradley and D. F. Brennan, deputy forest supervisors.

Klamath.—See California.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker-Exp. via Baker).

Minam.—R. M. EVANS, forest supervisor, Baker (WU) ; J. F. Irwin, deputy forest supervisor.

Ochoco.—V. V. HARPAM, forest supervisor, Prineville (WU, PT & T) ; Douglas C. Ingram, grazing examiner.

Oregon.—T. H. SHERRARD, forest supervisor, Portland (WU, P) ; Carl B. Neal, deputy forest supervisor.

Santiam.—C. C. HALL, forest supervisor, Albany (WU, P).

Siskiyou.—N. F. MACDUFF, forest supervisor, Grants Pass (WU, P) ; H. A. Haefner, forest examiner.

Siuslaw.—RALPH S. SHELLEY, forest supervisor, Eugene (WU, P) ; C. T. Beach, deputy forest supervisor ; H. M. Johnson, forest examiner.

- Umatilla.**—W. W. CRYDER, forest supervisor, Pendleton (WU, P).
- Umpqua.**—S. C. BARTRUM, forest supervisor, Roseburg (WU, P); George Bonebrake, deputy forest supervisor.
- Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU); N. J. Billings, deputy forest supervisor; A. R. Wilcox, forest examiner.
- Wenaha.**—See Washington.
- Whitman.**—R. M. EVANS, forest supervisor, Baker (WU); I. E. Jones, deputy forest supervisor; George L. Drake, forest examiner; Walter L. Dutton, grazing examiner.
- WASHINGTON.
- Chelan.**—E. H. MACDANIELS, forest supervisor, Chelan (PT & T-Exp. via Wenatchee).
- Columbia.**—F. H. BRUNDAGE, forest supervisor, Portland, Oreg. (WU, P).
- Colville.**—C. C. REID, forest supervisor, Republic (WU, P); F. W. Cleator, deputy forest supervisor.
- Okanogan.**—P. T. HARRIS, forest supervisor, Okanogan (PT & T-Exp. via Wenatchee); G. E. Mitchell, deputy forest supervisor.
- Olympic.**—R. L. FROMME, forest supervisor, Olympia (WU, P); Chris. Morgenroth, deputy forest supervisor; E. J. Hanzlik and O. F. Ericson, forest examiners.
- Rainier.**—G. F. ALLEN, forest supervisor, Tacoma (WU, P); E. J. Fenby, deputy forest supervisor; F. B. Kellogg, forest examiner.
- Snoqualmie.**—STANTON G. SMITH, forest supervisor, Seattle (WU, P); Lewis A. Treen, jr., deputy forest supervisor.
- Washington.**—C. H. PARK, forest supervisor, Bellingham (WU, P); R. L. Campbell, deputy forest supervisor.
- Wenaha.**—JOHN C. KUHN, forest supervisor, Walla Walla (WU).
- Wenatchee.**—A. H. SYLVESTER, forest supervisor, Leavenworth (WU).

DISTRICT 7.

Arkansas, Alabama, Florida, Oklahoma, South Carolina, Georgia, North Carolina, Tennessee, Virginia, West Virginia, New Hampshire, Maine, Porto Rico. Office, Atlantic Building, Washington, D. C.

F. W. REED, acting district forester.

ACCOUNTS.—J. H. KERRICK, district fiscal agent.

OPERATION, H. O. STABLER, assistant district forester; R. C.

ENGINEERING. HUEY, roads.

SILVICULTURE,

GRAZING,

LANDS,

}

F. W. REED, assistant district forester; W. F. HILL, land classification.

NATIONAL FOREST.

ALABAMA.

Alabama.—E. J. MEAD, forest examiner in charge, Moulton.

ARKANSAS.

Arkansas.—JOHN L. COBBS, Jr., forest supervisor, Hot Springs (WU, P) ;
Chas. A. Plymale, deputy forest supervisor.

Ozark.—C. J. HELLER, forest supervisor, Russellville (WU).

FLORIDA.

Florida.—L. L. BISHOP, forest supervisor, Pensacola (WU, P) ; C. H. Rogers, deputy forest supervisor.

GEORGIA.

Cherokee-Georgia.—H. G. SPAHR, forest supervisor, Athens, Tenn. (WU, P).

Savannah (includes south half of Nantahala and the Savannah purchase areas).—R. W. SHIELDS, forest supervisor, Clayton (WU, P).

MAINE.

White Mountain.—See New Hampshire.

NEW HAMPSHIRE.

White Mountain.—J. J. FRITZ, forest supervisor, Gorham (WU, P).

NORTH CAROLINA.

Pisgah (includes Boone, Mount Mitchell, north half of Nantahala, and Pisgah purchase areas and Pisgah National Forest and Game Preserve).—VERNE RHOADES, forest supervisor, Asheville (WU, P) ; J. St. J. BENEDICT, forest examiner, timber sales.

OKLAHOMA.

Wichita.—FRANK RUSH, forest supervisor, Cache (WU).

PORTO RICO.

Luquillo.—E. MURRAY BRUNER, forest supervisor, Rio Piedras.

SOUTH CAROLINA.

Savannah.—See Georgia.

TENNESSEE.

White Top (includes Unaka and White Top purchase areas).—H. L. RUSSELL, forest examiner in charge, Johnson City (WU, P).

Cherokee.—See Georgia.

VIRGINIA.

Natural Bridge.—J. H. FAHRENBACH, forest supervisor, Buena Vista (WU, P).

Shenandoah (includes Shenandoah, Massanutten, and Potomac purchase areas).—S. H. MARSH, forest supervisor, Harrisonburg (WU, P).

White Top.—See Tennessee.

WEST VIRGINIA.

Monongahela.—H. L. JOHNSON, forest examiner, in charge, Elkins (WU, P).

SERVICE CHANGES.

FURLOUGHED FOR MILITARY DUTY.

FORESTER.—Wm. L. Hall, assistant forester.

ENGINEERING.—Lyle A. Whitsit, assistant engineer.

LANDS.—John D. Jones, national forest examiner.

DISTRICT 1.—R. A. Hamilton, Clearwater, forest supervisor; R. A. Phillips, Lolo, forest ranger.

DISTRICT 2.—Carl M. Stanley, Pike, deputy forest supervisor; Leslie T. Mahurin, Holy Cross; William J. Trembath, Michigan; Creed A. Neeper, forest clerks. Benjamin H. Lowe, Harney, forest ranger.

DISTRICT 3.—Jay Montgomery, Tusayan, forest clerk; Paul Henley Roberts, inspector of grazing.

DISTRICT 4.—Emyr E. Jones, clerk (typewriter); Alvin H. Johnson, minor clerk; Albert R. Griffith, Boise, forest ranger; Raymond T. Forbes, Dixie; Otto H. Tschanz, Lemhi, forest clerks. Dana Parkinson, Salmon, forest supervisor; Jesse L. Bedwell, Weiser, forest ranger.

DISTRICT 5.—Clarence W. Griggs, California, clerk (stenographer and typewriter); Richard L. Wiley, California, forest clerk.

DISTRICT 6.—William B. Osborne, jr., Oregon; R. E. Kan Smith, Tongass, forest examiners. Martin N. Unser, Wenaha, clerk.

APPOINTED.

EDITOR.—Arthur C. Watkins, assistant editor.

RESEARCH.—W. Hoyt Weber and Ralph C. Bryant, industrial examiners in forest products.

LABORATORY.—Horace T. Burgess, computing specialist; Joseph D. Deihl, administrative assistant; Olenus L. Sponsler and Thomas R. Truax, wood technologists; Vance P. Edwardes, engineer in forest products; Rufus Crane and Teodulo J. Medicielo, assistant engineers in forest products; Fredolf T. Anderson and Harold M. Mayo, assistant chemists in forest products; Shirley W. Allen, Richard A. Colgan, jr., Harry M. Hale, and Arthur F. McDuffie, industrial examiners in forest products.

DISTRICT 1.—Frank Foltz, Kaniksu, forest ranger; Elsie M. Ruppert, Sioux, clerk (typewriter); Joanna M. M. Granger, Jefferson, clerk (stenographer). Mrs. Edna L. Allen and Mrs. Blanche D. Simes, clerks (typewriters).

DISTRICT 2.—Alfred P. Larson, Bighorn, forest clerk; Mary B. Hughes, Gunnison, clerk (stenographer and typewriter).

DISTRICT 3.—Fannie Lynch, Apache, clerk; Walter J. Perry, Carson; John W. Dorman, Coconino; Simeon Strickland, Lincoln, scalers. Clyde E. Thomson, Coconino, forest ranger; Laura Flickinger, Datil, clerk (stenographer); Virginia C. Bamber, Prescott, clerk (typewriter); Mrs. Mahala McGonagill, Tusayan, charwoman.

DISTRICT 4.—Bernadette M. Murphy, Marion A. Carter, Ruby Pearl Eickhoff, and Dorothy L. Kyes, Sawtooth, clerks (stenographers and typewriters). Luella M. Taylor and Elsie C. Bayer, Bridger; Muriel A. Fifield, Targhee, clerks (typewriters). Garrett B. Holloway, Bridger, forest clerk. Scott W. Stewart, unskilled laborer.

DISTRICT 6.—Flora Parkhurst and Katherine S. Vigers, clerks (stenographers and typewriters).

PROMOTED IN RANK.

EDITOR.—Lewis C. Everard, assistant editor to chief of publication.

ACQUISITION.—Paul G. Jenney, transit man to examiner of surveys.

DISTRICT 1.—H. R. Flint, forest examiner, Flathead, to forest supervisor, Kaniksu.

DISTRICT 3.—Thomas C. Turk, Datil, forest ranger to deputy forest supervisor; Lee C. Daves, surveyor to assistant engineer.

DISTRICT 4.—Alexander McQueen, Nevada; John C. Roak, Kaibab; Sidney C. Scribner, Salmon, deputy forest supervisors to forest supervisors. Elmer C. Ross, forest ranger to telephone engineer. Oscar W. Mink, Humboldt; Clinton M. Mangun, Salmon; Ernest A. Renner, Targhee, forest rangers to deputy forest supervisors.

DISTRICT 5.—Charles V. Brereton, forest ranger to national forest examiner; Frederic J. Jeken, Angeles, forest ranger to deputy forest supervisor; Fred J. Dooley, Tahoe, forest ranger to scaler; Ernest V. Jotter, Trinity, forest examiner to forest supervisor; William V. Mendenhall, Angeles, forest ranger to deputy forest supervisor.

DISTRICT 6.—George E. Stevenson, Wallowa, forest ranger to scaler; John C. Kuhns, jr., grazing examiner, Deschutes, to forest supervisor, Wenaha.

CHANGE IN DESIGNATION.

DISTRICT 1.—Vernon C. Sheffield, Sioux, forest ranger to forest assistant.

DISTRICT 5.—Richard F. Hammatt, forest supervisor to forest examiner.

DISTRICT 6.—Richard H. Robertson, draftsman (copyist, topographic) to draftsman (surveyor).

RESIGNED.

RESEARCH.—Kenneth McK. Clarke, logging engineer.

ACQUISITION.—Robert J. Noyes, forest examiner.

LABORATORY.—Roger B. Quincy, box inspector; Ernest D. Fahlberg, Ralph E. Johnston, Willard S. Wilder, E. Page Tracy, and Wm. S. Broome, assistant engineers in forest products.

DISTRICT 1.—Glen L. Dodge, Custer; Nathan J. Hayes and Alonzo H. Ott, Deerlodge; Harold B. Knapp, Gallatin; Frank A. Clark, Jefferson; L. F. Jefferson, Lewis and Clark; Harry C. Schick and John R. Winnington, forest rangers. Elizabeth M. Cook, Jefferson, clerk (stenographer and typewriter). H. H. Lansing, draftsman; Esther S. Halm, clerk (stenographer and typewriter); Marie Taylor, clerk (stenographer).

DISTRICT 2.—Victor H. Frey, Arapaho; Mrs. Theresa A. Van Dolah, Leadville, forest clerks. Helen Haller, Medicine Bow; Eva J. Crossman, San Juan; Mrs. Doris I. Barr, clerks (stenographers and typewriters). Katherine A. Wagner, Montezuma, clerk (typewriter); Berry W. Phelps, Arapaho; Lionel H. Sherman, Bighorn; Marion J. Webber, Black Hills; Walter Enbom, Gunnison; Cedric F. Morey, Michigan; William E. Jackson, Pike, forest rangers. Earl Byron Tanner, logging engineer; Henry C. Orpen, surveyor-draftsman.

DISTRICT 3.—Charles C. Carr, Crook, clerk; Laura Flickinger, Datil, clerk (stenographer); Benjamin F. Nabours, Lincoln, forest ranger; Mrs. Margaret Hiscox, Tonto, clerk (typewriter); Roy M. Pierce, Tonto, forest ranger. Mrs. Laurine Raike, clerk (stenographer and typewriter).

DISTRICT 4.—Frederick L. Mott, Nevada, forest supervisor; Andrew E. Oman, forest examiner; Raymond J. Becraft, grazing examiner. James W. Robins, Powell; Percy L. White, Toiyabe; Josiah Shurtz, Fishlake; Joseph W. Palmer, La Sal; Glenn Strawn, Payette, forest rangers. Ivy P. Flanery, Gladys O. Elliott, and Mary D. Beach, Cache; Muriel M. Littlefield, Humboldt, clerks (stenographers and typewriters).

DISTRICT 5.—John M. Longdon, Shasta; Hosea L. Clark, Sequoia; Thomas R. Wentzell and Walter H. Coupe, Modoc; Robert Finley, Klamath; Henry W. Atcheson, California; Walter David Marx and Carlton H. Fritz, Angeles, forest rangers. Frank A. Wilson, Tahoe, deputy forest supervisor. John E. Zollers, Mono; Lura S. Gyllstrom, Santa Barbara, forest clerks. Florence A. Henderson, clerk (stenographer and typewriter); Ynez V. Roussell, messenger girl.

DISTRICT 6.—George J. Landess, Cascade; Ernest J. Moore, Snoqualmie; Eilert T. Skaar, Washington; Jasper T. Taylor, Whitman, forest rangers. Edith C. Wall, Deschutes; Helen V. Weeks, Umatilla, clerks (stenographers and typewriters). Lewis E. McDaniels, Wenaha, forest supervisor. Victor H. W. Flack, draftsman (topographic); Mary E. James, Mrs. Nellie M. Shears, Mary Luella Thompson, clerks (stenographers and typewriters).

DISTRICT 7.—Elwood S. Bushnell, White Top.

With deep regret announcement is made of the death of Eugene R. McGlaughlin, forest assistant, District 1, September 15; Isidor L. Smolen, forest ranger, Fort Valley Experiment Station, October 3; Everett G. Snell, assistant engineer in forest products, Seattle Laboratory, October 11; James Johnston, jr., forest ranger, Lewis and Clark, October 22; R. E. Maurer, surveyor, District 1, October 30; Marion J. Brown, forest ranger, Inyo, November 4; J. Rhode Matthews, forest clerk (temporary), Carson, November 7; Mrs. Lena Weise, charwoman, Carson, November 9; Harley H. Sage, forest ranger, Coronado, November 13; J. Roy Harvey, national forest examiner, District 6, December 5; R. E. Pratt, district engineer, District 2, December 7; Alverous W. Fletcher, forest ranger, Prescott, December 8; Joseph M. Russell, clerk, District 2, December 11; Allen G. Lincoln, hydroelectrical engineer, District 2; December 12; L. C. Herr, compiler, Washington office, January 2; Frank B. Moody, collaborator, State Cooperation, August 19; Ernest P. Johnson, engineer in forest products, Forest Products Laboratory, October 24; Chas. N. Hammond, deputy forest supervisor, Arkansas, October 18; John E. Blalock, forest ranger, Arkansas, October 13.

SERVICE NOTES FOR JANUARY.

These notes contain instructions and necessary information to forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

United States *v.* L. R. Jones: Grazing trespass, civil, Sioux National Forest. Case closed upon payment of \$66.50, value of forage consumed.

United States *v.* Philip Link: Occupancy trespass, civil, Coeur d'Alene National Forest. Trespasser left area after ejectment proceedings. Case closed.

United States *v.* Milwaukee Lumber Co. and Fidelity & Deposit Co. of Maryland: Proceedings on contract and bond for timber cut from canceled Joseph Robicheau homestead claim, St. Joe National Forest. Upon payment by defendants of \$3,344.25, the value of the timber cut, and court costs, amounting to \$44.55, the case was dismissed by the United States Attorney. Case closed.

United States *v.* Northern Pacific Railway Co.: Cancellation of patent No. 69511, Gallatin National Forest. November 2, 1918, a decision adverse to the United States was rendered in the United States Court for Montana. Appeal will be taken to the Circuit Court of Appeals.

United States *v.* O'Neil-Irvine Co.; Fire trespass, civil, Coeur d'Alene National Forest. Case closed upon receipt of \$83.75, value of timber destroyed.

State of Montana *v.* John White: Obtaining money under false pretense, Lolo National Forest. October 8 White was employed by the United States Employment Agency at Missoula for the Forest Service. He was furnished a ticket by the Forest Service from Missoula to Sildex, Mont. He used the ticket but failed to report on the job. October 29 complaint was filed against him before a justice of the peace in Missoula County. A plea of guilty was entered and defendant was sentenced to 10 days in the county jail. Value of ticket \$3.70. Case closed.

Law Cases in District 2—

United States *v.* U. V. Herard: Grazing trespass, San Isabel National Forest. Defendant confessed judgment, which was paid in full in the sum of \$150 damages and costs, amounting to \$49.85.

United States *v.* Frank E. Coe: Timber trespass, Medicine Bow National Forest. Case involved timber cut on lands covered by lieu se-

lections Nos. 2835 and 2836. Lieu selection No. 2835 was clear listed January 12, 1915. Protest against lieu selection No. 2836 was dismissed by decision of November 2, 1918, in case of F. A. Hyde & Co., Cheyenne, 012612. Trespass case was therefore closed.

United States *v.* Wm. Hardick: Grazing trespass, San Juan National Forest. Bill of complaint filed, to enjoin defendant from trespassing upon National Forest land, and also asking for damages already sustained.

United States *v.* Fall River Power Co: Occupancy trespass, Pike National Forest. Bill of complaint filed, to enjoin defendant from operating and maintaining power plant on National Forest land without a permit.

United States *v.* Charles Hidley: Occupancy trespass, Bighorn National Forest. Default taken on failure of defendant to answer complaint seeking to enjoin defendant from occupying National Forest land without permit. Case set for trial December 23, 1918.

Law Cases in District 3—

United States *v.* Frank & Chas. Ryall: Grazing trespass, Prescott National Forest. Case closed on payment of \$40.50, actual damages.

United States *v.* Chas. E. Burton: Grazing trespass, Tusayan National Forest. Case closed on payment of \$24.75, actual, and \$10, punitive damages.

United States *v.* Marion Fix: Grazing trespass, Tusayan National Forest. Case closed on payment of \$155.77, actual damages.

United States *v.* G. O. Sommerville: Grazing trespass, Lincoln National Forest. Case closed on payment of \$14.85, actual damages.

United States *v.* S. S. Tidwell: Grazing trespass, Lincoln National Forest. Case closed on payment of \$6, actual damages.

United States *v.* Antonio E. Vargas: Grazing trespass, Carson National Forest. Case closed on payment of \$25, actual damages.

United States *v.* F. C. Purcell: Grazing trespass, Coconino National Forest. Case closed on payment of \$45, actual damages.

United States *v.* John H. Pearce: Grazing trespass, Sitgreaves National Forest. Case closed on payment of \$334, actual damages.

United States *v.* Francis Campbell & Co: Grazing trespass, Tusayan National Forest. Case closed on payment of \$18, actual damages.

United States *v.* Oakley Olney: Grazing trespass, Crook National Forest. Case closed on payment of \$76.50, actual damages.

United States *v.* George F. Olden: Grazing trespass, Lincoln National Forest. Case closed on payment of \$96.10, actual, and \$25, punitive damages.

United States *v.* R. A. Willis: Grazing trespass, Sitgreaves National Forest. Case closed on payment of \$11.55, actual damages.

United States *v.* Joe Stephens: Fire trespass, Lincoln National Forest. Defendant indicted, and now in jail awaiting trial.

United States *v.* State Investment Co. et al: Occupancy trespass, Santa Fe National Forest. Mora Grant boundary case. Evidence submitted in September, now printed, and will be argued before Judge Neblett February 17, 1919.

United States *v.* Gaspar Suarez: Grazing trespass, criminal, Prescott National Forest. Plea of guilty, fine of \$50 paid, and case closed.

United States *v.* James A. Carey: Grazing trespass, Manzano National Forest. Complaint filed, and default entered.

United States *v.* Lee S. Miller: Grazing trespass, Coconino National Forest. Hearing held on application for preliminary injunction, and defendant allowed 30 days to remove all stock, failing in which, injunction to issue without further evidence.

United States *v.* Alexander Nagy: Personation of forest officer, Carson National Forest. Defendant indicted under section 32 of the Criminal Code on two counts, the first involving intent to defraud the United States through issuance of a permit to cut poles, and the second, intent to defraud the person named in the permit. Second count dismissed, and verdict of not guilty on the first count.

United States *v.* W. C. Ross: Occupancy trespass, Coconino National Forest. Complaint filed in suit for injunction to terminate occupancy.

United States *v.* Redondo Development Co.: Occupancy trespass, Santa Fe National Forest. Decision by Circuit Court of Appeals dismissing Government's application for injunction for removal of fence without prejudice to Government's right to make a true survey under the call of the grant with requirement for removal of fence to such survey.

United States *v.* Fred Howard: Grazing trespass, Manzano National Forest. Judgment paid in part, and execution issued to collect remainder.

Law Cases in District 4—

United States *v.* A. E. Brinegar: Grazing trespass, Sawtooth National Forest. Case closed on payment of \$78.75, actual damage.

United States *v.* R. S. Gulley: Grazing trespass, Minidoka National Forest. Case closed on payment of \$22.50.

United States *v.* Joseph Bergeson: Timber trespass, Cache National Forest. Defendant was arraigned, entered plea of guilty and fined \$15. Fine paid and case closed.

United States *v.* Etchecahar & Co.: Grazing trespass, Salmon National Forest. Case closed on payment of \$145.20.

United States *v.* Charles Curtis: Fire trespass, Idaho National Forest. Case dismissed by United States attorney.

United States *v.* Jean P. Pons: Grazing trespass, Cache National Forest. Case closed on payment of \$136.62.

Law Cases in District 5—

United States *v.* J. P. Lucas: Grazing trespass, Lassen National Forest. Payment of \$16.80 received in full settlement and case closed.

United States *v.* J. J. Fleming: Grazing trespass, Plumas National Forest. Payment of \$158.33 received in full settlement and case closed.

United States *v.* E. M. Null: Grazing trespass, Lassen National Forest. Payment of \$12.60 received in full settlement and case closed.

United States *v.* Roy Mayes: Grazing trespass, Modoc National Forest. Payment of \$285 received in full settlement and case closed.

United States *v.* C. H. Fee: Grazing trespass, Modoc National Forest. Payment of \$133 received in full settlement and case closed.

United States *v.* P. H. Green: Grazing trespass, California National Forest. Payment of \$60 received in full settlement and case closed.

United States *v.* Flinnell Bros.: Grazing trespass, California National Forest. Payment of \$60 received in full settlement and case closed.

United States *v.* Antone Nunes: Grazing trespass, Lassen National Forest. Payment of \$30.60 received in full settlement and case closed.

United States *v.* H. A. Guernsey: Timber trespass, Angeles National Forest. Payment of \$187.57 received in full settlement and case closed.

United States *v.* Mrs. Martha E. Page: Grazing trespass, Modoc National Forest. Payment of \$79.92 received in full settlement and case closed.

United States *v.* W. J. Davis and Henry Hulett: Fire trespass, California National Forest. Both defendants convicted. Davis fined \$750 or four months' imprisonment and Hulett fined \$200 or 30 days' imprisonment. Fines paid in full.

Law Cases in District 6—

Willamette Valley Lumbermen's Association *v.* Southern Pacific Co., United States Department of Agriculture intervenor. Order of Interstate Commerce Commission of October 24 granting complainant's petition, thereby removing differential of from 6 to 13 cents against lumber shipped from Willamette Valley points to points east of Missoula, Mont., on the Great Northern, Northern Pacific, and St. Paul Railways. Case closed.

United States *v.* A. E. Arneson: Fire trespass, criminal, Okanogan National Forest. Information filed December 2, 1918.

United States *v.* E. J. Wigal: Fire trespass, Columbia National Forest. Case closed October 3, 1918, on receipt of notice from United States attorney of payment of \$72.93.

United States *v.* A. E. Penny: Grazing trespass, criminal, Rainier National Forest. Information filed October 23, 1918.

United States *v.* Spiroplos Bros.: Grazing trespass, Minam National Forest. Payment received for \$246 actual, and \$50 punitive damages. Case closed October 3, 1918.

United States *v.* Dobbin & Huffman: Grazing trespass, Wallowa National Forest. Case closed September 30, 1918, on receipt of payment of \$108.54 actual damages.

United States *v.* Ben Colvin: Grazing trespass, Umatilla National Forest. Case closed November 15, 1918, on receipt of \$25 actual and \$50 punitive damages.

United States *v.* Ukiah Stock Co.: Grazing trespass, Umatilla National Forest. Case closed September 9, 1918, on receipt of payment of \$5.04 actual and \$50 punitive damages.

United States *v.* Hilbert & Sons: Grazing trespass, Umatilla National Forest. Case closed September 9, 1918, on receipt of \$6.84 actual and \$50 punitive damages.

United States *v.* W. M. Mulvaney: Timber trespass, Oregon National Forest. Case closed October 19, on receipt of \$24 actual damages.

United States *v.* J. T. Baker: Grazing trespass, Malheur National Forest. Case closed October 30, 1918, on receipt of \$144 actual and \$250 punitive damages.

United States *v.* Hubert J. Smith: Grazing trespass, Malheur National Forest. Case closed October 14, 1918, on receipt of \$231 actual and \$250 punitive damages.

United States *v.* H. Hotchkiss: Grazing trespass, Malheur National Forest. Case closed November 2, 1918, on payment of \$76.80 actual and \$250 punitive damages.

United States *v.* Paul T. Finke: Grazing trespass, Malheur National Forest. Case closed November 25, 1918, on receipt of \$39.60 actual and \$250 punitive damages.

United States *v.* E. J. Needles: Grazing trespass, Wenaha National Forest. Case closed December 10, 1918, on receipt of \$7.70 actual and \$25 punitive damages.

United States *v.* S. E. Miller: Grazing trespass, Minam National Forest. Case closed November 1, 1918, on receipt of \$37.37 actual and \$25 punitive damages.

United States *v.* W. M. Saunders: Grazing trespass, Minam National Forest. Case closed November 26, 1918, on receipt of \$11.45 actual and \$25 punitive damages.

United States *v.* A. K. Smythe: Grazing trespass, Wenaha National Forest. Case closed December 13, 1918, on receipt of \$99 actual damages.

United States *v.* Smythe Bros.: Grazing trespass, Umatilla National Forest. Case closed November 20, 1918, on receipt of \$36.75 actual and \$25 punitive damages.

United States *v.* J. H. Dills: Grazing trespass, Malheur National Forest. Case closed December 2, 1918, on receipt of \$189.60 actual damages.

United States *v.* W. A. Stanton: Grazing trespass, Wallowa National Forest. Case closed December 5, 1918, on receipt of \$30 actual damages.

United States *v.* Davien, Michellod Sheep & Land Co.: Grazing trespass, Wallowa National Forest. Case closed December 7, 1918, on receipt of \$7.50 actual and \$25 punitive damages.

United States *v.* J. H. Dobbin: Grazing trespass, Minam National Forest. Case closed December 23, 1918, on receipt of \$31.50 actual and \$50 punitive damages.

United States *v.* Jesus Gaubeca and Siberiano Egana: Grazing trespass, criminal, Wallowa National Forest. Information filed November 21, 1918.

SERVICE PUBLICATIONS ISSUED.

Department Bulletin 700.—Climate and Plant Growth in Certain Vegetative Associations.

Department Bulletin 711.—Logging in the Douglas Fir Region.

Department Bulletin 718.—Small Sawmills.

Department Bulletin 738.—Effect of Grazing upon Western Yellow Pine Reproduction in Central Idaho.

Unnumbered Publication.—A Plan for the Development of the Village of Grand Canyon, Ariz.

Unnumbered Publication.—Area Table.

Unnumbered Publication.—Forestry Laws of New York.

Unnumbered Publication.—Recreation Uses on the National Forests.

Unnumbered Publication.—Report of the Forester, 1918.

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